Appl. No. 10/565,388

Amdt. dated Mar. 1, 2007

Reply to Office action of Dec. 1, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the

application:

Listing of Claims:

Claims 1 and 2. (Canceled)

3. (Previously presented) In a fuel injection apparatus having an injection valve including a

control chamber, having a line that supplies highly pressurized fuel to the injection valve during

operation, having an actuator and having a control valve that controls the pressure in the control

chamber of the injection valve connected to the line and includes a movable valve member that

the actuator is able to actuate via a hydraulic coupler, the hydraulic coupler having two pistons

that cooperate with a coupler volume of the coupler, the seat of the movable valve member

having an internal cross-sectional area f3 equipped with means for filling the coupler volume

with pressurized fuel via guidance gaps of the pistons, the improvement comprising a booster

chamber at the ends of the pistons oriented toward the actuator, the pistons being guided one

inside the other in parallel fashion; a filling chamber inside the outer piston and connected to the

line; a rod mechanically coupling one of the pistons to the actuator, the rod having a cross-

sectional area f5; the other piston actuating the control valve by means of a second rod, the

second rod having a cross-sectional area f1 smaller than f2; the direction of the opening

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movement of the movable valve member coinciding with the direction of fuel flowing out of the

control chamber so that the control valve is at least partially force-balanced due to the pressure

acting on the additional piston in the booster chamber.

4. (Currently amended) A fuel injection apparatus according to claim 3, further comprising an

additional filling chamber at least in a region of the rod connecting the actuator to the hydraulic

coupler and spaced apart from the coupler chamber situated the closest to the actuator, the

additional filling chamber being connected to the line [[5]] and communicating with the coupler

via a guidance gap of the rod.

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